

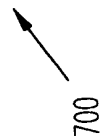
700



Write To LBA 0 Again

PBA/ LBA	702	730	732	734	736	738	740	714	715
716 ~ 00	VPBA Blk Addr	MVPBA Blk Addr	Move Flag	Used Flag	Old Flag	Defect Flag	L	L	L
718 ~ 10	00	10	1	1	0	0	0	0	0
720 ~ 20	XX	XX	0	1	0		0	0	0
722 ~ 30							0	0	0
724 ~ 40							0	0	0
726 ~ 50							0	0	0
.	.	.	.	.	.	.	0	0	0
.	.	.	.	.	.	.	0	0	0
.	.	.	.	.	.	.	0	0	0
728 ~ N-1							0	0	0

FIG. 17



PBA/ LBA	Host Write To LBA 5		714																	
	VPBA Blk Addr	MVPBA Blk Addr	Move Flag	Used Flag	Old Flag	Defect Flag	L	L	L	L	L	L	L	L	L	L	L	L	L	L
702	00	10	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
716 ~ 00	XX	XX	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718 ~ 10																				
720 ~ 20																				
722 ~ 30																				
724 ~ 40																				
726 ~ 50																				
728 ~ N-1																				

FIG. 18

700



[illegible]

FIG. 19

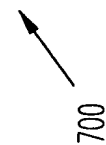
700



Host Write To LBA 5

PBA/ LBA	702	730	732	734	746	742	744	714	716	718	720	722	724	726	728	N-1
	VPBA Blk Addr	MVPBA Blk Addr	Move Flag	Used Flag	Old Flag	Defect Flag		L	L	L	L	L	L	L	L	L
716 ~ 00	00	20	1	1	0	0		0	1	0	0	0	0	0	0	0
718 ~ 10	XX	XX	0	1	1	0		0	0	0	0	0	0	0	0	0
720 ~ 20	XX	XX	0	1	0	0		0	0	0	0	0	0	0	0	0
722 ~ 30																
724 ~ 40																
726 ~ 50																
.										
.										
.										
728																
N-1																

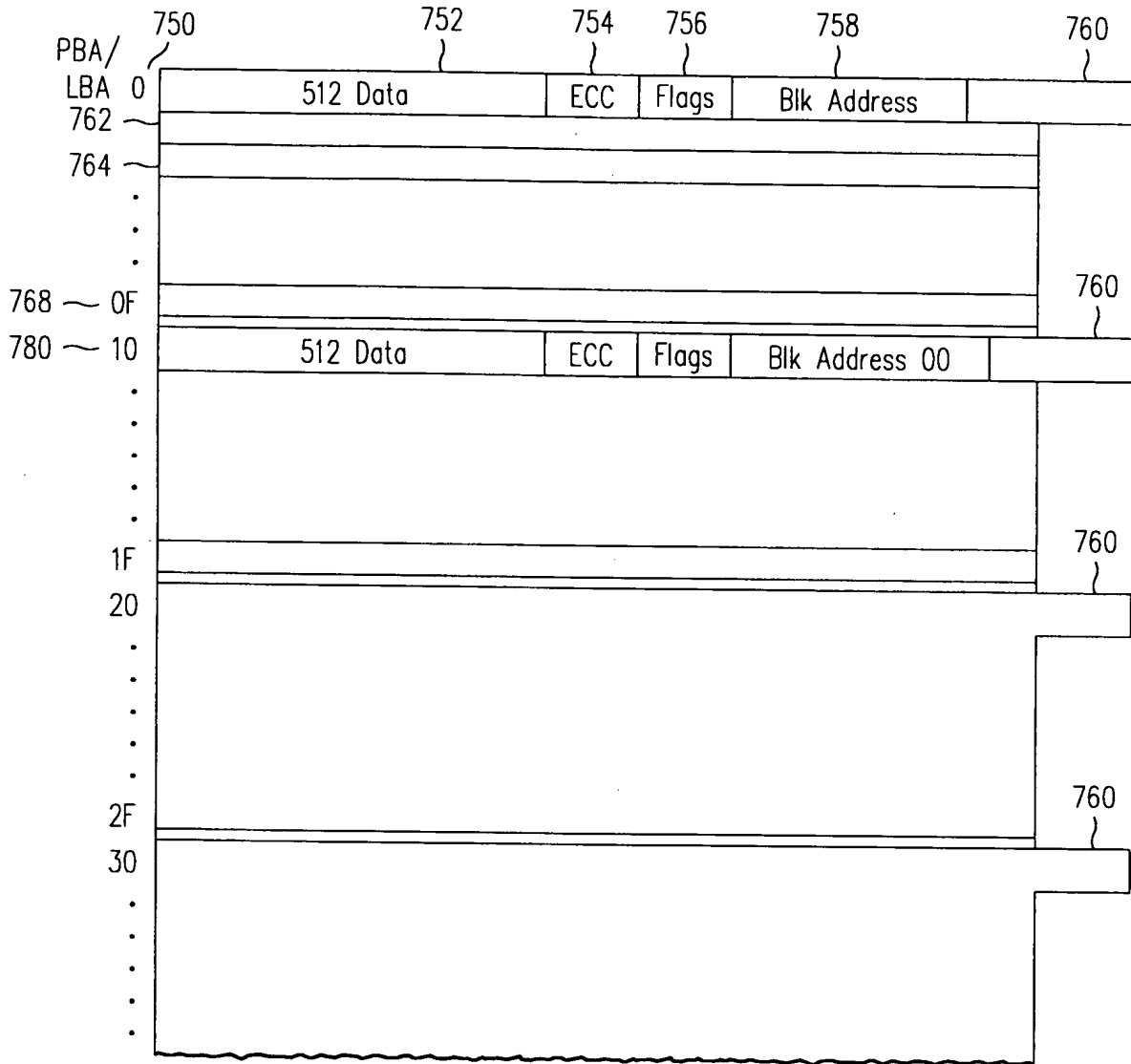
FIG. 20



700



18/19



510

FIG. 22

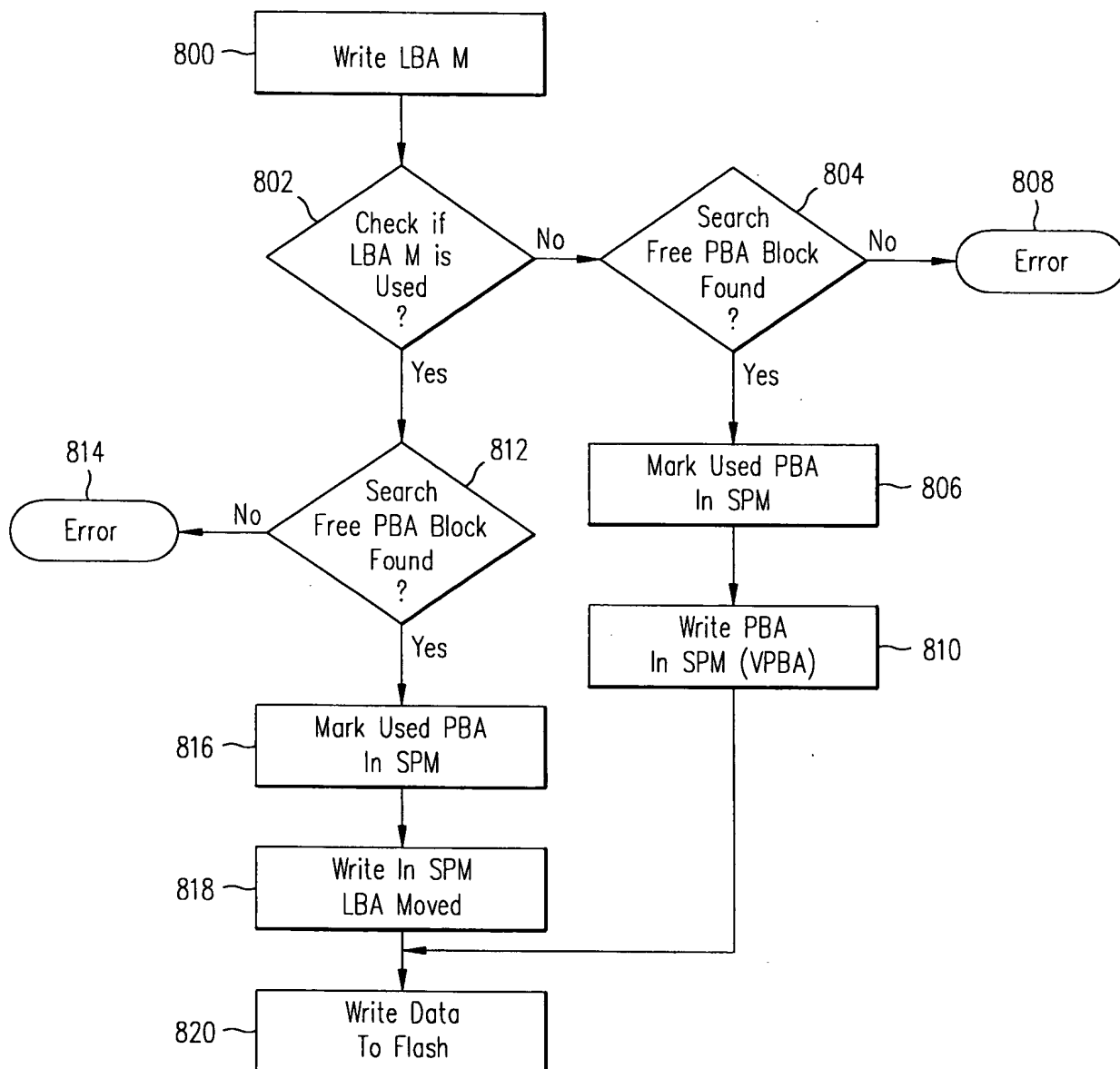


FIG. 23



11/19

PBA/ LBA	702	730	732	706	734	708	742	714															
	VPBA Blk Addr	MVPBA Blk Addr	Move Flag	Used Flag	Old Flag	Defect Flag	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
716 ~ 00	00	20	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718 ~ 10	XX	XX	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
720 ~ 20	XX	XX	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
722 ~ 30																							
724 ~ 40																							
726 ~ 50																							
.
728 ~																							
N-1																							

Host Write To LBA 5

FIG. 15

700



11/19

PBA/ LBA	702	730	732	706	734	708	742	714														
	VPBA Blk Addr	MVPBA Blk Addr	Move Flag	Used Flag	Old Flag	Defect Flag	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
716 ~ 00	00	20	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718 ~ 10	XX	XX	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
720 ~ 20	XX	XX	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
722 ~ 30																						
724 ~ 40																						
726 ~ 50																						
.
728 ~																						
N-1																						

Host Write To LBA 5

FIG. 15

700

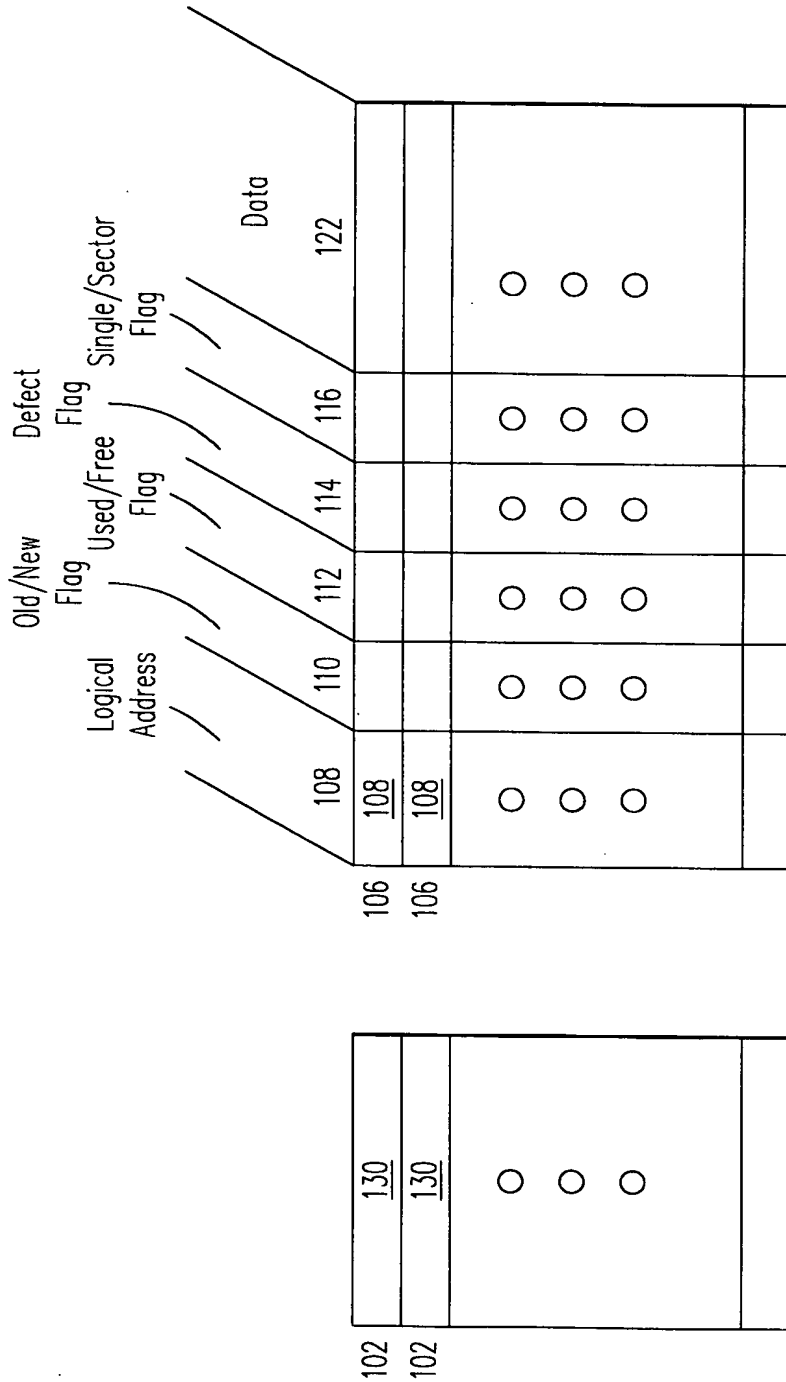


FIG. 1

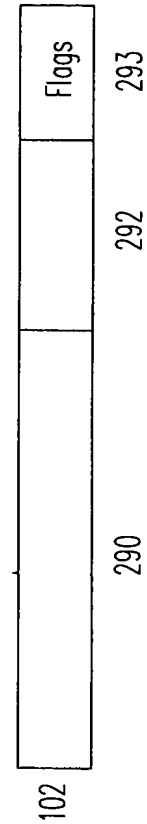


FIG. 2



2/19

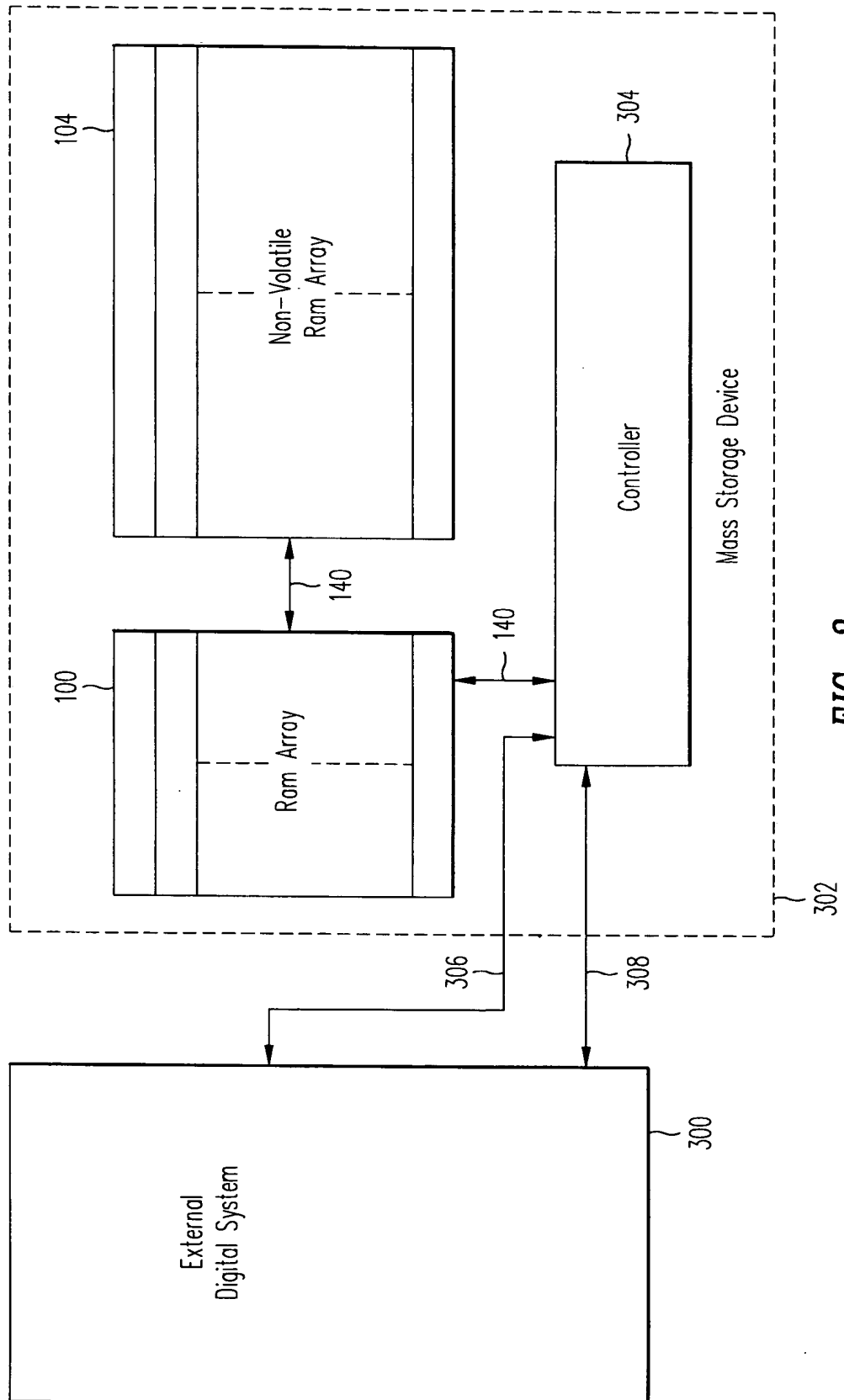


FIG. 3



3/19

Actual LBA/ Actual PBA	Virtual PBA	old	used	def
0		0	0	0
1		0	0	0
2		0	0	0
3		0	0	0
4		0	0	0
5		0	0	0
6		1	1	0
7		0	0	0
8		0	0	0
9		0	0	1
10		0	0	0

FIG. 4

Actual LBA/ Actual PBA	Virtual PBA	old	used	def
0		0	1	0
1		0	0	0
2		0	0	0
3	0	0	0	0
4		0	0	0
5		0	0	0
6		1	1	0
7		0	0	0
8		0	0	0
9		0	0	1
10		0	0	0

FIG. 5

Actual LBA/ Actual PBA	Virtual PBA	old	used	def
0		0	1	0
1		0	1	0
2		0	0	0
3	0	0	0	0
4	1	0	0	0
5		0	0	0
6		1	1	0
7		0	0	0
8		0	0	0
9		0	0	1
10		0	0	0

FIG. 6



Actual LBA/ Actual PBA	Virtual PBA	old	used	def
0		1	1	0
1		0	1	0
2		0	1	0
3	2	0	0	0
4	1	0	0	0
5		0	0	0
6		1	1	0
7		0	0	0
8		0	0	0
9		0	0	1
10		0	0	0

FIG. 7

Actual LBA/ Actual PBA	Virtual PBA	old	used	def
0		1	1	0
1		1	1	0
2		0	1	0
3	2	0	1	0
4	3	0	0	0
5		0	0	0
6		1	1	0
7		0	0	0
8		0	0	0
9		0	0	1
10		0	0	0

FIG. 8



5/19

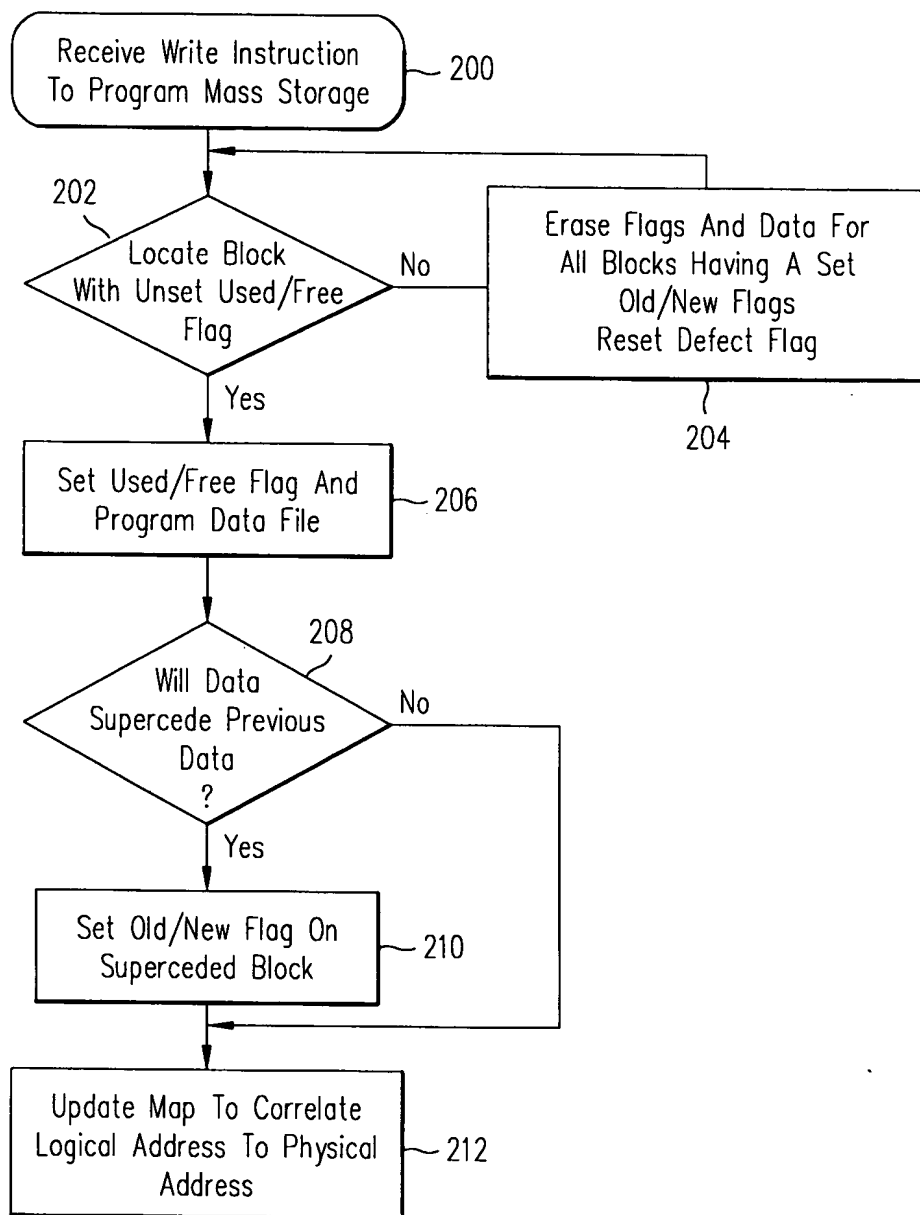
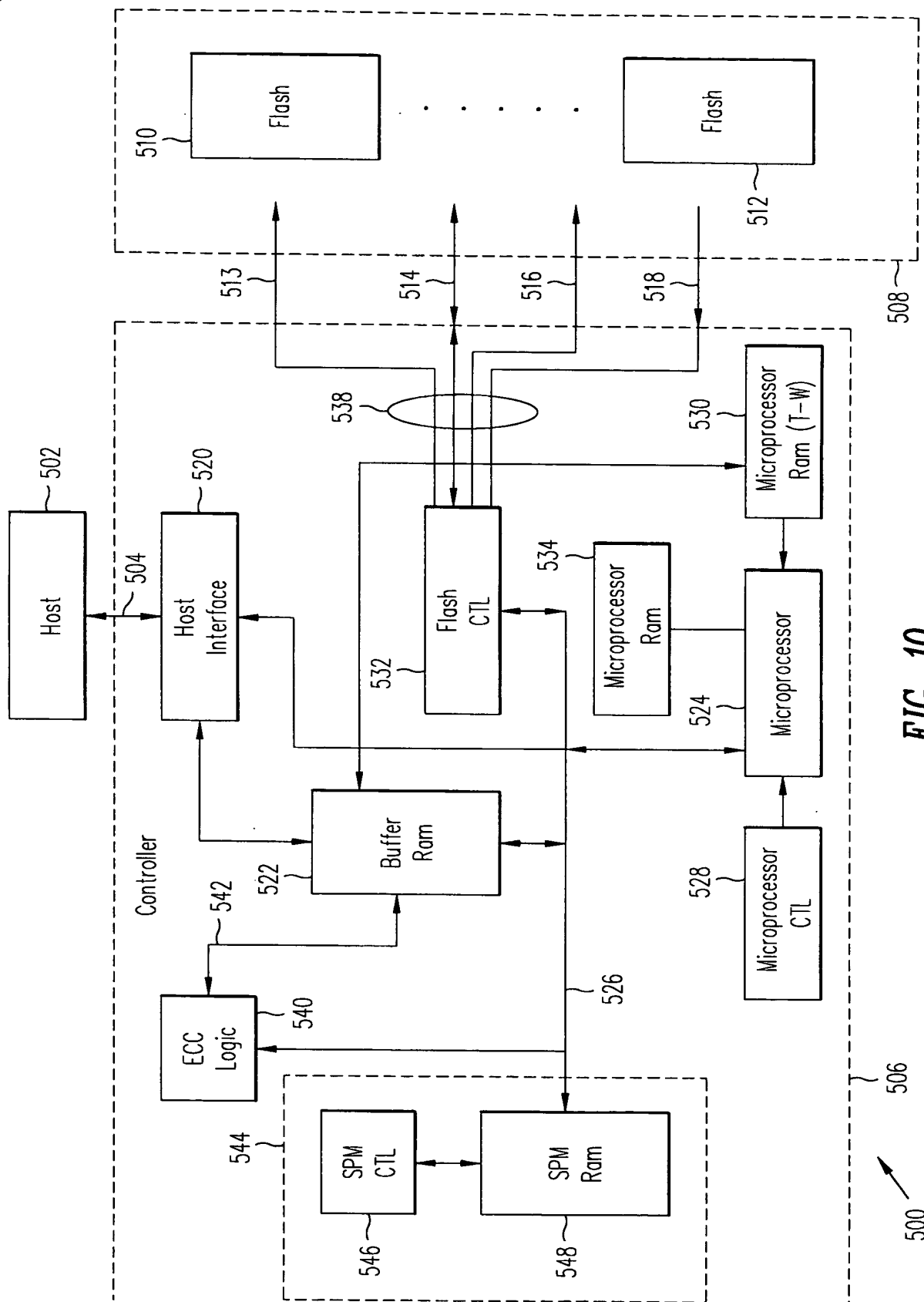


FIG. 9

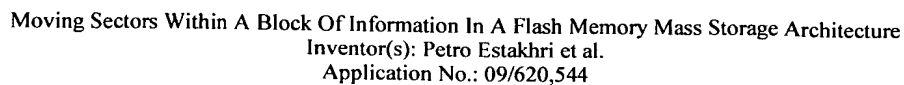




PBA/ LBA	702		730		704		732		706		734		708		736		710		738		712		714																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	VPBA Blk Addr	MVPBA Blk Addr	Move Flag		Used Flag		Old Flag		Defect Flag		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

FIG. 11

700



700 .



10/19

PBA/ LBA	Host Write To LBA 0 Again										714																
	702	730	704	732	706	734	708	710	738	744	712	740	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
716 ~ 00	VPBA Blk Addr	00	MVPBA Blk Addr	00	Move Flag	1	Used Flag	1	Old Flag	0	Detect Flag	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718 ~ 10	XX	XX	XX	XX	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
720 ~ 20	XX	XX	XX	XX	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
722 ~ 30	XX	XX	XX	XX	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
724 ~ 40																											
726 ~ 50																											
.
.
.
728 ~																											
N-1																											

FIG. 14

700



11/19

PBA/ LBA	702	730	732	706	734	708	742	714																	
	VPBA Blk Addr	MVPBA Blk Addr	Move Flag	Used Flag	Old Flag	Defect Flag	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
716 ~ 00	00	20	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
718 ~ 10	XX	XX	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
720 ~ 20	XX	XX	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
722 ~ 30																									
724 ~ 40																									
726 ~ 50																									
.
.
.
728 ~																									
N-1																									

Host Write To LBA 5

FIG. 15

700